Author Index

Adam, A., see Ong, H. 213
Adámek, V.
—, Králová, B., Šüuchová, H., Valentová, O. and Demnerová, K.
Purification of microbial uricase 268
Alkonyi, I., see Sandor, A. 250
Anttila, M., see Vuorilehto, L. 282
Ayotte, C., see Massé, R. 17
Balíková, M.
— and Kohlíček, J.
Gas chromatography of simple phenols in biological fluids 159
Barnikol, W.K.R.
—, Burkhard, O. and Pötzschke, H.
Das Erythrocruorin des Regenwurms (*Lumbricus terrestris*) als Eichsubstanz in der Gelchromatographie 231
Beaulieu, N., see Ong, H. 213
Bellemare, M., see Ong, H. 213
Bi, H., see Massé, R. 17
Binder, S.R., see Mazhar, M. 201
Blobel, H., see Sting, R. 258
Boudinot, F.D., see Satterwhite, J.H. 330
Bowers, L., see Edlund, P.O. 49
Breton, L.
—, Serkiz, B., Volland, J.-P. and Lepagnol, J.
A new rapid method for phospholipid separation by high-performance liquid chromatography with light-scattering detection 243
Broquet, P., see Martin, A. 319
Brown, R.C.
—, Evans, C.E., Hoskins, J.A. and Peacock, J.
Production of tyrosine isomers in mice by therapeutic doses of ^{60}Co irradiation 360
Burkhard, O., see Barnikol, W.K.R. 231
Chang, S.Y.
—, Nelson, F.R., Findlay, J.W.A. and Taylor, L.C.E.
Quantitative gas chromatographic–mass spectrometric analysis of acrivastine and a metabolite in human plasma 288
Chiandetti, L., see Ferrari, V. 101
Ching, M.S.
—, Lennard, M.S., Gregory, A. and Tucker, G.T.
Measurement of underivatised metoprolol enantiomers in human plasma by high-performance liquid chromatography with a chiral stationary phase 313
Choma, N., see Rubio, F.A. 147
Chu, Y.-Q.
— and Wainer, I.W.
Determination of the enantiomers of verapamil and norverapamil in serum using coupled achiral–chiral high-performance liquid chromatography 191
Covey, T.R., see Edlund, P.O. 49
Cracco, A.T., see Ferrari, V. 101
Cramers, C.A.M.G., see Schoots, A.C. 79
Crane, M.St.J., see Nollstadt, K.H. 87
Cseko, J., see Sandor, A. 250
Czejka, M.J.
—, Jäger, W. and Schüller, J.
Mitomycin C determination using loop-column extraction: a rapid and sensitive high-performance liquid chromatographic assay for pharmacokinetic studies with Spherex starch particles 336
Davis, A.T.
Assay for lysine-ketoglutarate reductase by reversed-phase high-performance liquid chromatography 263
DeGeorge, J.J., see Kusmierz, J. 39
Degrell, I., see Nagy, E. 276
Demnerová, K., see Adámek, V. 268
Digou, F. Le, see Lecaillon, J.B. 223
Dubois, J.P., see Lecaillon, J.P. 223
Dugal, R., see Massé, R. 17
Du Souich, P., see Ong, H. 213
Dussini, N., see Ferrari, V. 101
Edlund, P.O.
—, Bowers, L., Henion, J. and Covey, T.R.
Rapid determination of methandrostenolone in equine urine by isotope dilution liquid chromatography–tandem mass spectrometry 49
Ehninger, G., see Schleyer, G. 109
Evans, C.D., see Jones, G.D. 121
Evans, C.E., see Brown, R.C. 360
Facchini, V., see Jones, G.D. 121
Feely, M., see Peaker, S. 308
Ferrari, V.
—, Giordano, G., Cracco, A.T., Dussini, N., Chiandetti, L. and Zacchello, F.
Determination of urinary orotate excre-

tion by high-performance liquid chromatography 101
Findlay, J.W.A., see Chang, S.Y. 288
Fujimoto, K., see Hirauchi, K. 131
Fukuda, E.K., see Rubio, F.A. 147
Furusawa, M., see Kiba, N. 236
Garrick, C., see Rutledge, D.R. 181
Giaccari, A.
— and Rossetti, L.
Isocratic high-performance liquid chromatographic determination of the concentration and specific radioactivity of phosphoenolpyruvate and uridine diphosphate glucose in tissue extracts 69
Giordano, G., see Ferrari, V. 101
Gnozzio, M.J., see Nollstadt, K.H. 87
Gregory, A., see Ching, M.S. 313
Gurnett, A.M., see Nollstadt, K.H. 87
Heller, M., see Radeck, W. 367
Henion, J., see Edlund, P.O. 49
Hicks, C.M.
— and Powell, M.L.
Rapid analysis of ceftetrame in human plasma using sorbent extraction and high-performance liquid chromatography 349
Hiddemann, W., see Schleyer, E. 109
Hirauchi, K.
—, Sakano, T., Notsumoto, S., Nagaoka, T., Morimoto, A., Fujimoto, K., Masuda, S. and Suzuki, Y.
Measurement of K vitamins in animal tissues by high-performance liquid chromatography with fluorimetric detection 131
Hoskins, J.A., see Brown, R.C. 360
Irie, T., see Watanabe, N. 169
Itoh, T., see Murai, S. 363
Jäger, W., see Czeijka, M.J. 336
Jones, G.D.
—, Evans, C.D., Facchini, V. and Lewellen, O.R.W.
Determination of 2-*n*-octadecylindole-5-carboxylic acid in human plasma by high-performance liquid chromatography 121
Jungbauer, A., see Weigang, F. 59
Karkhanis, Y.D., see Nollstadt, K.H. 87
Katinger, H., see Weigang, F. 59
Kiba, N.
—, Muto, M. and Furusawa, M.
High-performance liquid chromatographic determination of branched-chain α-keto acids in serum using immobilized leucine dehydrogenase as post-column reactor 236
Kindel, M.
—, Ludwig-Koehn, H. and Lembcke, B.
New and versatile method for the determination of faecal bile acids by thin-layer chromatography with direct scanning fluorimetry 139
Kohlíček, J., see Balíková, M. 159
Koyama, M., see Watanabe, N. 169
Králová, B., see Adámek, V. 268
Kumar, S., see Peaker, S. 308
Kusmierz, J.
—, DeGeorge, J.J., Sweeney, D., May, C. and Rapoport, S.I.
Quantitative analysis of polyols in human plasma and cerebrospinal fluid 39
Lasorella, A., see Riccardi, A. 302
Lecaillon, J.B.
—, Souppart, C., Le Duigou, F. and Dubois, J.P.
Determination of oxiracetam in plasma and urine by column-switching high-performance liquid chromatography 223
Le Digou, F., see Lecaillon, J.B. 223
Lembcke, B., see Kindel, M. 139
Lennard, M.S., see Ching, M.S. 313
Lepagnol, J., see Breton, L. 243
Lewellen, O.R.W., see Jones, G.D. 121
Loedwig-Koehn, H., see Kindel, M. 139
Louisot, P., see Martin, A. 319
Lucarelli, C., see Marzo, A. 296
Marleau, S., see Ong, H. 213
Martin, A.
—, Ruggiero-Lopez, D., Broquet, P., Richard, M. and Louisot, P.
High-performance liquid chromatographic study of GDP-mannose and GDP-fucose metabolism 319
Marzo, A.
—, Treffner, E., Meroni, G., Ripamonti, M., Pelloso, R. and Lucarelli, C.
Assay of a calcium antagonist (PU 122) in plasma by gas chromatography 296
Massé, R.
—, Ayotte, C., Bi, H. and Dugal R.
Studies on anabolic steroids. III. Detection and characterization of stanozolol urinary metabolites in humans by gas chromatography–mass spectrometry 17

Masuda, S., see Hirauchi, K. 131
Masuda, Y., see Murai, S. 363
May, C., see Kusmierz, J. 39
Mazhar, M.
— and Binder, S.R.
Analysis of benzodiazepines and tricyclic antidepressants in serum using a common solid-phase clean-up and a common mobile phase 201
Meese, C.O., see Uedelhoven, W.M. 1
Mehta, A.C., see Peaker, S. 308
Meroni, G., see Marzo, A. 296
Miyate, H., see Murai, S. 363
Morimoto, A., see Hirauchi, K. 131
Murai, S.
—, Saito, H., Nagahama, H., Miyate, H., Masuda, Y. and Itoh, T.
Ultra-rapid assay of brain γ-aminobutyric acid by liquid chromatography with electrochemical detection 363
Muto, M., see Kiba, N. 236
Nagahama, H., see Murai, S. 363
Nagaoka, T., see Hirauchi, K. 131
Nagy, E.
— and Degrell, I.
Determination of ascorbic acid and dehydroascorbic acid in plasma and cerebrospinal fluid by liquid chromatography with electrochemical detection 276
Nelson, F.R., see Chang, S.Y. 288
Nollstadt, K.H.
—, Karkhanis, Y.D., Gnozzio, M.J., Crane, M.St.J., Gurnett, A.M., Schmatz, D.M. and Turner, M.J.
Potential of the sulfobetaine detergent Zwittergent 3-12 as a desorbing agent in biospecific and bioselective affinity chromatography 87
Notsumoto, S., see Hirauchi, K. 131
Ong, H.
—, Adam, A., Perreault, S., Marleau, S., Bellemare, M., Du Souich, P. and Beaulieu, N.
Analysis of albuterol in human plasma based on immunoaffinity chromatographic clean-up combined with high-performance liquid chromatography with fluorimetric detection 213
Peacock, J., see Brown, R.C. 360
Peaker, S.
—, Mehta, A.C., Kumar, S. and Feely, M.
Measurement of low (sub-therapeutic) phenobarbitone levels in plasma by high-performance liquid chromatography: application to patient compliance studies 308
Pelloso, R., see Marzo, A. 296
Perreault, S., see Ong, H. 213
Pötzschke, H., see Barnikol, W.K.R. 231
Powell, M.L., see Hicks, C.M. 349
Proksch, B., see Schleyer, E. 109
Radeck, W.
— and Heller, M.
Improved method for the determination of furosemide in plasma by high-performance liquid chromatography 367
Rapoport, S.I., see Kusmierz, J. 39
Ravenscroft, J.J., see Schneider, J.J. 326
Reiter, M., see Weigang, F. 59
Riccardi, A.
—, Servidei, T., Lasorella, A. and Riccardi, R.
High-performance liquid chromatographic assay for cytosine arabinoside and uracil arabinoside in cerebrospinal fluid and plasma 302
Riccardi, R., see Ricardi, A. 302
Richard, M., see Martin, A. 319
Ripamonti, M., see Marzo, A. 296
Rossetti, L., see Giaccari, A. 69
Rubio, F.A.
—, Choma, N. and Fukuda, E.K.
Determination of rimantadine and its hydroxylated metabolites in human plasma and urine 147
Rudolph, M.
Determination of saterinone in plasma by high-perforamance liquid chromatography 342
Ruggiero-Lopez, D., see Martin, A. 319
Rutledge, D.R.
— and Garrick, C.
Rapid high-performance liquid chromatographic method for the measurement of the enantiomers of metoprolol in serum using a chiral stationary phase 181
Saito, H., see Murai, S. 363
Sakano, T., see Hirauchi, K. 131
Salonen, J.S., see Vuorilehto, L. 282
Samuelsen, O.B.
Determination of flumequine in fish by high-performance liquid chromatography and fluorescence detection 355

Sandor, A.
—, Cseko, J. and Alkonyi, I.
Use of anion-exchange resin in F^- form in sample processing for determination of carnitine 250
Satterwhite, J.H.
— and Boudinot, F.D.
High-performance liquid chromatographic determination of ibuprofen in rat and human plasma 330
Schleyer, E.
—, Ehninger, G., Zühlsdorf, M., Proksch, B. and Hiddemann, W.
Detection and separation of intracellular 1-β-D-arabinofuranosylcytosine-5-triphosphate by ion-pair high-performance liquid chromatography 109
Schmatz, D.M., see Nollstadt, K.H. 87
Schmitt, M., see Sting, R. 258
Schneider, J.J.
— and Ravenscroft, P.J.
Determination of morphine in plasma by high-performance liquid chromatography with fluorescence detection 326
Schoots, A.C.
— and Cramers, C.A.M.G.
Study on the analogy of gel permeation chromatography and cuprophan dialysis for the isolation of uremic 'middle molecules' using model compounds 79
Schüller, J., see Czejka, M.J. 336
Serkiz, B., see Breton, L. 243
Servidei, T., see Riccardi, A. 302
Souich, P. du, Ong, H. 213
Souppart, C., see Lecaillon, J.B. 223
Sting, R.
—, Schmitt, M. and Blobel, H.
Isolierung eines Fibronektin-Rezeptors von *Streptococcus pyogenes* durch Affinitätschromatographie und anschliessender Hochleistungflüssigkeitschromatographie 258
Šüchová, M., see Adámek, V. 268
Suzuki, Y., see Hirauchi, K. 131
Sweeney, D., see Kusmierz, J. 39
Taylor, L.C.E., see Chang, S.Y. 288
Tominaga, T., see Watanabe, N. 169
Treffner, E., see Marzo, A. 296
Tucker, G.T., see Ching, M.S. 313
Turner, M.J., see Nollstadt, K.H. 87
Uedelhoven, W.M.
—, Meese, C.O. and Weber, P.C.
Analysis of the major urinary thromboxane metabolites, 2,3-dinorthromboxane B_2 and 11-dehydrothromboxane B_2, by gas chromatography–mass spectrometry and gas chromatography–tandem mass spectrometry 1
Valentová, O., see Adámek, V. 268
Volland, J.-P., see Breton, L. 243
Vuorilehto, L.
—, Salonen, J.S. and Anttila, M.
Picogram level determination of medetomidine in dog serum by capillary gas chromatography with negative ion chemical ionization mass spectrometry 282
Wainer, I.W., see Chu, Y.-Q. 191
Watanabe, N.
—, Irie, T., Koyama, M. and Tominaga, T.
Liquid chromatographic–atmospheric pressure ionization mass spectrometric analysis of toremifene metabilites in human urine 169
Weber, P.C., see Uedelhoven, W.M. 1
Weigang, F.
—, Reiter, M., Jungbauer, A. and Katinger, H.
High-performance liquid chromatographic determination of metabolic products for fermentation control of mammalian cell culture: analysis of carbohydrates, organic acids and orthophosphate using refractive index and ultraviolet detectors 59
Zacchello, F., see Ferrari, V. 101
Zühlsdorf, M., see Schleyer, E. 109

Subject Index

Acrivastine
Quantitative GC–MS analysis of acrivastine and a metabolite in human plasma 288

Albuterol
Analysis of albuterol in human plasma based on immunoaffinity chromatographic clean-up combined with HPLC with fluorimetric detection 213

γ-Aminobutyric acid
Ultra-rapid assay of brain γ-aminobutyric acid by LC with electochemical detection 363

Anabolic steroids
Studies on anabolic steroids. III. Detection and characterization of stanozolol urinary methabolites in humans by GC–MS 17

1-β-D-Arabinofuranosylcytosine
HPLC assay for cytosine arabinoside and uracil arabinoside in cerebrospinal fluid and plasma 302

1-β-D-Arabinofuranosylcytosine-5-triphosphate
Detection and separation of intracellular 1-β-D-arabinofuranosylcytosine-5-triphosphate by ion-pair HPLC 109

Ascorbid acid
Determination of ascorbid acid and dehydroascorbic acid in plasma and cerebrospinal fluid by LC with electrochemical detection 276

Benzodiazepines
Analysis of benzodiazepines and tricyclic antidepressants in serum using a common solid-phase clean-up and a common mobile phase 201

Bile acids
New and versatile method for the determination of faecal bile acids by TLC with direct scanning fluorimetry 139

Branched-chain α-keto acids
HPLC determination of branched-chain α-keto acids in serum using immobilized leucine dehydrogenase as post-column reactor 236

Calcium antagonist
Assay of a calcium antagonist (PU 122) in plasma by GC 296

Carbohydrates
HPLC determination of metabolic products for fermentation control of mammalian cell culture: analysis of carbohydrates, organic acids and orthophosphate using refractive index and UV detectors 59

Carnitine
Use of anion-exchange resin in F^- form in sample processing for determination of carnitine 250

Ceftetrame
Rapid analysis of ceftetrame in human plasma using sorbent extraction and HPLC 349

Cytosine arabinoside
HPLC assay for cytosine arabinoside and uracil arabinoside in cerebrospinal fluid and plasma 302

Dehydroascorbic acid
Determination of ascorbic acid and dehydroascorbic acid in plasma and cerebrospinal fluid by LC with electrochemical detection 276

11-Dehydrothromboxane B_2
Analysis of the major urinary thromboxane metabolites, 2,3-dinorthromboxane B_2 and 11-dehydrothromboxane B_2, by GC–MS and GC–tandem MS 1

N-Demethyl-4-hydroxytoremifene
LC–atmospheric pressure ionization MS analysis of toremifene metabolites in human urine 169

N-Demethyltoremifene
LC–atmospheric pressure ionization MS analysis of toremifene metabolites in human urine 169

4,4′-Dihydroxytoremifene
LC–atmospheric pressure ionization MS analysis of toremifene metabolites in human urine 169

2,3-Dinorthromboxane B_2
Analysis of the major urinary thromboxane metabolites, 2,3-dinorthromboxane B_2 and 11-dehydrothromboxane B_2, by GC–MS and GC–tandem MS 1

Enzymes
Assay for lysine-ketoglutarate reductase by reversed-phase HPLC 263
Enzymes
Purification of microbial uricase 268
Erythrocruorin
Use of erythrocruorin of the earthworm (*Lumbricus terrestris*) as a standard in gel chromatography 231
Fibronectin receptor
Isolation of a fibronectin receptor from *Streptococcus pyogenes* by affinity chromatography followed by HPLC 258
Flumequine
Determination of flumequine in fish by HPLC and fluorescence detection 355
Furosemide
Improved method for the determination of furosemide in plasma by HPLC 367
GDP-fucose
HPLC study of GDP-mannose and GDP-fucose metabolism 319
GDP-mannose
HPLC study of GDP-mannose and GDP-fucose metabolism 319
Hydroxyrimantadine
Determination of rimantadine and its hydroxylated metabolites in plasma and urine 147
4-Hydroxytoremifene
LC–atmospheric pressure ionization MS analysis of toremifene metabolites in human urine 169
Ibuprofen
HPLC determination of ibuprofen in rat and human plasma 330
α-Keto acids
HPLC determination of branched-chain α-keto acids in serum using immobilized leucine dehydrogenase as post-column reactor 236
α-Ketoisocaproic acid
HPLC determination of branched-chain α-keto acids in serum using immobilized leucine dehydrogenase as post-column reactor 236
α-Ketoisovaleric acid
HPLC determination of branched-chain α-keto acids in serum using immobilized leucine dehydrogenase as post-column reactor 236
α-Keto-β-methylvaleric acid
HPLC determination of branched-chain α-keto acids in serum using immobilized leucine dehydrogenase as post-column reactor 236
Lysine-ketoglutarate reductase
Assay for lysine-ketoglutarate reductase by reversed-phase HPLC 263
Medetomidine
Picogram level determination of medetomidine in dog serum by capillary GC with negative ion chemical ionization MS 282
Menaquinones
Measurement of K vitamins in aminal tissues by HPLC with fluorimetric detection 131
Methandrostenolone
Rapid determination of methandrostenolone in equine urine by isotope dilution LC–tandem MS 49
Metoprolol
Rapid HPLC method for the measurement of the enantiomers of metoprolol in serum using a chiral stationary phase 181
Metoprolol
Measurement of underivatised metoprolol enantiomers in human plasma by HPLC with a chiral stationary phase 313
Middle molecules
Study on the analogy of gel permeation chromatography and cuprophan dialysis for the isolation of uremic 'middle molecules' using model compounds 79
Mitomycin C
Mitomycin C determination using loop-column extraction: a rapid and sensitive HPLC assay for pharmacokinetic studies with Spherex starch particles 336
Morphine
Determination of morphine in plasma by HPLC with fluorescence detection 326
p-Nitrobenzenes
Study on the analogy of gel permeation chromatography and cuprophan dialysis for the isolation of uremic 'middle molecules' using model compounds 79
p-Nitrophenylacetic acid
Study on the analogy of gel permeation chromatography and cuprophan dialysis for the isolation of uremic 'middle molecules' using model compounds 79

p-Nitrophenylglucoside
Study on the analogy of gel permeation chromatography and cuprophan dialysis for the isolation of uremic 'middle molecules' using model compounds 79
p-Nitrophenylglucuronide
Study on the analogy of gel permeation chromatography and cuprophan dialysis for the isolation of uremic 'middle molecules' using model compounds 79
p-Nitrophenyllactoside
Study on the analogy of gel permeation chromatography and cuprophan dialysis for the isolation of uremic 'middle molecules' using model compounds 79
Norverapamil
Determination of the enantiomers of verapamil and norverapamil in serum using coupled achiral–chiral HPLC 191
2-*n*-Octadecylindole-5-carboxylic acid
Determination of 2-*n*-octadecylindole-5-carboxylic acid in human plasma by HPLC 121
Organic acids
HPLC determination of metabolic products for fermentation control of mammalian cell culture: analysis of carbohydrates, organic acids and orthophosphate using refractive index and UV detectors 59
Orotate
Determination of urinary orotate excretion by HPLC 101
Orthophosphate
HPLC determination of metabolic products for fermentation control of mammalian cell culture: analysis of carbohydrates, organic acids and orthophosphate using refractive index and UV detectors 59
Oxiracetam
Determination of oxiracetam in plasma and urine by column-switching HPLC 223
Phenobarbitone
Measurement of low (sub-therapeutic) phenobarbitone levels in plasma by HPLC: application to patient compliance studies 308
Phenols
GC of simple phenols in biological fluids 159
Phosphoenolpyruvate
Isocratic HPLC determination of the concentration and specific radioactivity of phosphoenolpyruvate and uridine diphosphate glucose in tissue extracts 69
Phospholipids
A new rapid method for phospholid separation by HPLC with light-scattering detection 243
Phylloquinone
Measurement of K vitamins in animal tissues by HPLC with fluorimetric detection 131
Polyols
Quantitative analysis of polyols in human plasma and cerebrospinal fluid 39
PU 122
Assay of a calcium antagonist (PU 122) in plasma by GC 296
Rimantadine
Determination of rimantadine and its hydroxylated metabolites in human plasma and urine 147
Saterinone
Determination of saterinone in plasma by HPLC 342
Stanozolol
Studies on anabolic steroids. III. Detection and characterization of stanozolol urinary metabolites in humans by GC–MS 17
Steroids
Studies on anabolic steroids. III. Detection and characterization of stanozolol urinary metabolites in humans by GC–MS 17
Steroids
Rapid determination of methandrostenolone in equine urine by isotope dilution LC–tandem MS 49
Sugar-nucleotides
HPLC study of GDP-mannose and GDP-fucose metabolism 319
Sugars
Quantitative analysis of polyols in human plasma and cerebrospinal fluid 39
Sulfobetaine detergent
Potential of the sulfobetaine detergent Zwittergent 3-12 as a desorbing agent in biospecific and bioselective affinity chromatography 87

Thromboxane B_2
Analysis of the major urinary thromboxane metabolites, 2,3-dinorthromboxane B_2 and 11-dehydrothromboxane B_2, by GC–MS and GC–tandem MS 1
Toremifene
LC–atmospheric pressure ionization MS analysis of toremifene metabolites in human urine 169
Tricyclic antidepressants
Analysis of benzodiazepines and tricyclic antidepressants in serum using a common solid-phase clean-up and a common mobile phase 201
Tyrosine
Production of tyrosine isomers in mice by therapeutic doses of ^{60}Co irradiation 360
Uracil arabinoside
HPLC assay for cytosine arabinoside and uracil arabinoside in cerebrospinal fluid and plasma 302
Uricase
Purification of microbial uricase 268
Uridine diphosphate glucose
Isocratic HPLC determination of the concentration and specific radioactivity of phosphoenolpyruvate and uridine diphosphate glucose in tissue extracts 69
Verapamil
Determination of the enantiomers of verapamil and norverapamil in serum using coupled achiral–chiral HPLC 191
Vitamins K
Measurement of K vitamins in animal tissues by HPLC with fluorimetric detection 131
Zwittergent 3-12
Potential of the sulfobetaine detergent Zwittergent 3-12 as a desorbing agent in biospecific and bioselective affinity chromatography 87